

# **Information for Bidders**

## **Foster Square Drainage Improvements**

The City of Nashua Division of Public Works invites qualified firms to submit bids for the **Foster Square Drainage Improvements** project. The purpose of the project is to make improvements to capture more stormwater at the location of the existing catch basin and to restore the eroded area in the park. The Work includes removal and disposal of an abandoned sewer, installation of approximately 48 feet of 12 inch Schedule 35 PVC pipe, removal and disposal of an existing catch basin, installation of a 5 foot diameter precast concrete catch basin with 3 foot sump with granite curb inlet and double catch basin grate, removal and replacement of about 60 feet of vertical granite curb straight and on radius, restoration of the roadway, removal and resetting of brick walkway area, replacement of an asphalt sidewalk, restoring of an eroded lawn area with topsoil, loam and seed, and all associated work.

The bidder is directed to the following information when considering bidding.

The contractor is referred to the City of Nashua, Standard Specifications for Sewer and Drains, and to the City of Nashua, Standard Specifications for Sidewalk Construction and City of Nashua Standard Specifications for Road Construction for work completed on this project, unless item is specifically detailed on plan. Any items not covered in the City Standard Specifications will be governed by the New Hampshire Department of Transportation Standard Specifications for Road and Bridge Construction, 2010 edition. The City of Nashua, Standard Specifications are included in the Technical Specification section for the convenience of the contractor.

All permits needed to complete the Work shall be obtained by the Contractor at the Contractor's expense. As a minimum a Permit to Encumber is required to work in the right of way.

### **COORDINATION WITH LIBERTY UTILITIES**

In the vicinity of this project, cast iron gas lines and a service line owned by Liberty Utilities were capped and abandoned. When contractor is ready to excavate in the area of the existing catch basin and abandoned gas lines, shown on the drawings, the contractor shall notify Liberty Utilities to remove their gas lines. The contractor is responsible for this coordination.

### **PROTECTION OF EXISTING ORNAMENTAL FENCE**

Prior to beginning work, the existing ornamental fence on the property of 19 Orange Street is to be protected at the contractor's expense. Any damage to the fence is at the contractor's expense. Repair of the fence will be completed to the satisfaction of the property owner and the ENGINEER.

## PRECONSTRUCTION MEETING

Once Notice of Award is received and prior to mobilizing, BIDDER will attend a preconstruction meeting to discuss sequence of WORK. A detail work schedule will be provided by the contractor the meeting.

## GENERAL WORK REQUIREMENTS

The City reserves the right to decrease or increase the scope as necessary depending on the availability of remaining funds.

**City of Nashua, New Hampshire  
Division of Public Works  
Foster Square Drainage Improvements  
BID SCHEDULE/FORM**

Item No.	Item Description with Unit Bid Price in Words	Estimated Quantities	Units	Unit Price	Cost
1	Tree removal and grind stump	1	LS		
2	Excavation, filling and final grading	1	LS		
3	Remove and dispose of benches	2	EA		
4	Remove and reset brick area, using minimum 8 inch sand base	1	LS		
5	Furnish and Install 12" dia SDR 35 PVC sewer pipe, includes excavation, backfill, bedding material and removal and disposal of existing pipe	48	LF		
6	Remove and reset buried vertical granite curb around brick area	20	LF		
7	Furnish and install 5 foot dia precast Concrete Catch Basin Structure with 3 foot sump, and removal of existing	10	VF		
8	Remove and replace Vertical granite curb, straight	30	LF		
9	Remove and replace Vertical granite curb, radius	10	LF		
10	Double Catch Basin Frame & Grate with granite curb inlet, radius, furnish and install	1	LS		
11	Replacing Triangular Sewer Manhole Cover with Round Manhole Cover	1	LS		
12	Connection to brick sewer manhole and repair manhole as needed	1	LS		
13	Sidewalk Construction - Remove pavement, restore pavement 2 in thickness, filling with gravel minimum 6 inches, hand method	1	LS		
14	Sawcut Bituminous Pavement - Road way	1	LS		
15	Roadway Restoration - Hot Bituminous Pavement , Hand Method and Machine Method	4	Tons		
16	Loam & Seed	1	LS		
17	Maintenance of traffic	1	LS		
18	Uniformed Officers and Outsourced Flaggers	Allowance	EA	\$750.00	\$750.00
<b>BASE BID TOTAL</b>					<b>\$</b> _____
<b>Alternate Item - Must bid</b>					
	Replace brick sewer manhole with new 4 foot dia precast concrete manhole, include three cores to match existing inverts. Reset and/or replace brick area.	1	LS		

**TOTAL - BASE BID WITH ALTERNATE**

**Figure**

**\$** \_\_\_\_\_

**Bid In Written Words:**

\_\_\_\_\_  
Authorized Signature

\_\_\_\_\_  
Name of Firm

\_\_\_\_\_  
Name Printed and Title

\_\_\_\_\_  
Date

## **Measurement and Payment Items**

The following items are contained on the BID SCHEDULE. The names as shown below are on the Bid Schedule and shall not be construed to represent a complete description of all of the Work included under such items and are provided only as a means of identification and for ease of conversation. The contractor is referred to the City of Nashua, Standard Specifications for Sewers and Drains, Standard Specifications for Sidewalk Construction, and Standard Specifications for Road Construction. In addition, the contractor is referred to the NHDOT Standard Specifications for Road and Bridges Construction, 2010 for items not included in the City of Nashua, Standard Specifications.

All permits needed to complete the Work shall be obtained by the Contractor at the Contractor's expense.

### **BASE BID ITEMS**

#### **Tree Removal and Grind Stump**

Measurement: The quantity to be paid for under this item of the Bid Schedule shall include the removal and disposal of the tree, as shown on the plan, including stump and roots, and grinding the stump to 12 inches below grade.

Payment: Payment or credit shall be a lump sum price in the Bid Schedule and will constitute full compensation for all labor, materials and equipment required to complete the Work, including disposal.

#### **Excavation, fill and final grading**

Measurement: The quantity to be paid for under this item of the Bid Schedule shall include earthwork, grading, excavation, filling and final grading of the lawn area where the tree that is to be removed to the area of the curb and bituminous sidewalk. Fill will need to be brought to site to fill eroded soils. Grading will follow the downhill slope. Loam and seed is to be installed and paid for under a separate item.

Payment: Payment or credit shall be a lump sum price in the Bid Schedule and will constitute full compensation for all labor, materials and equipment required to complete the Work.

#### **Remove and dispose of benches**

Measurement: The quantity to be paid for under this item of the Bid Schedule shall include the removal and disposal of two benches as shown on the plan.

Payment: Payment or credit shall be as a unit price per each in the Bid Schedule and will constitute full compensation for all labor, materials and equipment required to complete the Work.

#### **Remove and reset brick area**

Measurement: The quantity to be paid for under this item of the Bid Schedule shall include the removal and resetting of bricks, including sand a minimum of 8 inch sand base, cutting of bricks, and replacement of damaged bricks needed to complete the Work. An estimated area is shown on the plans but is only a guide. This Work includes all disturbed bricks including, but to limited to, construction of the sewer trench, removal of the benches, and replacement of the triangular manhole cover to a round cover.

Payment: Payment or credit shall be a lump sum price in the Bid Schedule and will constitute full compensation for all labor, materials and equipment required to complete the Work.

#### **Install 12 inch dia SDR 35 Sewer pipe**

Measurement: The quantity to be paid for under this item of the Bid Schedule shall include removal and disposal of the 12 inch bulkheaded and abandoned pipe, furnishing and installing of the 12 inch diameter SDR 35 sewer pipe as shown the plans. This Work includes the excavation, gravels, compaction and backfilling of the sewer trench.

Payment: Payment or credit shall be at the price per linear foot of sewer pipe installed in the Bid Schedule and will constitute full compensation for all labor, materials and equipment required to complete the Work.

#### **Remove and Reset Buried Vertical Granite Curb around Bricked Area**

Measurement: The quantity to be paid for under this item of the Bid Schedule shall include the removal and resetting of buried vertical curb located around the bricked walkway area. All curb that is damaged or broken will be replaced with new curb to match. This Work includes the excavation, compaction and backfilling as needed to reset the curb.

Payment: Payment or credit shall be at the price per linear foot of curb installed in the Bid Schedule and will constitute full compensation for all labor, materials and equipment required to complete the Work.

#### **Furnish and install 5 foot dia precast Concrete Catch Basin Structure with 3 foot sump**

Measurement: The quantity to be paid for under this item of the Bid Schedule shall include the removal and disposal of the existing catch basin and furnishing and installing a five (5) foot diameter precast concrete catch basin with 3 foot sump. Also included in

this work is disconnecting and bulkheading of the RCP lateral pipe that is connects the existing catch basin to the drain manhole, as shown on the plan. This Work includes the excavation, compaction and backfilling complete all Work and the connection of the new 12 inch PVC sewer pipe to the catch basin structure.

Payment: Payment or credit shall be at the price per vertical foot of catch basin structure installed in the Bid Schedule and will constitute full compensation for all labor, materials and equipment required to complete the Work.

### **Remove and Replace Vertical Granite Curb, Straight**

Measurement: The quantity to be paid for under this item of the Bid Schedule shall include the removal and resetting of buried vertical curb located around the bricked walkway area. All curb that is damaged or broken will be replaced with new curb to match. This Work includes the excavation, compaction and backfilling as needed to reset the curb.

Payment: Payment or credit shall be at the price per linear foot of curb installed the Bid Schedule and will constitute full compensation for all labor, materials and equipment required to complete the Work.

### **Remove and Replace Vertical Granite Curb, Radius**

Measurement: The quantity to be paid for under this item of the Bid Schedule shall include the removal and resetting of vertical curb with a radius. This Work includes the excavation, compaction and backfilling as needed to replace the curb.

Payment: Payment or credit shall be at the price per linear foot of curb installed the Bid Schedule and will constitute full compensation for all labor, materials and equipment required to complete the Work.

### **Double Catch Basin Frame and Grate with Granite Curb Inlet, Radius**

Measurement: The quantity to be paid for under this item of the Bid Schedule shall include the removal and disposal of the existing frame and grate and furnishing and installing a new double catch basin frame and grate with radius granite curb inlet at the existing catch basin location.

Payment: Payment or credit shall be a lump sum price in the Bid Schedule and will constitute full compensation for all labor, materials and equipment required to complete the Work.

### **Replacing Triangular Sewer Manhole Cover with Round Manhole Cover**

Measurement: The quantity to be paid for under this item of the Bid Schedule shall include the removal of the existing Triangular Sewer Manhole Cover and furnishing and installing a new round sewer manhole cover on the existing sewer manhole. Included in this item is raising the frame as necessary, inspecting the walls of the structure and making the necessary repairs in order to seat the new round frame and cover. Removing and resetting of the bricks around the manhole is required and is included for payment in Item 4 of the BID SCHEDULE.

Payment: Payment or credit shall be a lump sum price in the Bid Schedule and will constitute full compensation for all labor, materials and equipment required to complete the Work.

### **Connection to brick sewer manhole and repair manhole as needed**

Measurement: The quantity to be paid for under this item of the Bid Schedule shall include the connection of the 12 inch diameter SDR 35 sewer pipe to the existing brick sewer manhole at the same invert elevation as the abandoned sewer pipe. The Work shall include all repairs needed to the brick manhole to seal and make it watertight at the connection.

Payment: Payment or credit shall be a lump sum price in the Bid Schedule and will constitute full compensation for all labor, materials and equipment required to complete the Work.

### **Sidewalk Construction - Bituminous walkway**

Measurement: The quantity to be paid for under this item of the Bid Schedule shall include the removal and disposal of the existing bituminous concrete, and the earthwork, grading, repair to the gravel so it is a depth of six (6) inches, and two (2) inches of bituminous concrete, including the furnishing and installation of all materials, to complete concrete Work as shown on the plans. Hand method will be used.

Payment: Payment or credit shall be a lump sum price in the Bid Schedule and will constitute full compensation for all labor, materials and equipment required to complete the Work.

### **Roadway Restoration - Bituminous Asphalt**

Measurement: The quantity to be paid for under this item of the Bid Schedule shall include the removal and disposal of the existing bituminous concrete, and the earthwork, grading, material to furnish and install 2 inches of binder coarse ( $\frac{3}{4}$  binder Course Material NHDOT Type B and shall conform to Section 403, Section 02745 Paving) and 1 inch Wearing Coarse ( $\frac{3}{8}$  inch Wearing Coarse NHDOT Type F and shall conform to Section 403, Section 02745 Paving). Installation of the tack coat shall be included in this

item and not be measured separately. This item includes for both the hand method and machine method.

Payment: Payment or credit shall be at the contract unit price per ton in the Bid Schedule and will constitute full compensation for all labor, materials and equipment required to complete the Work.

### **Loam and Seed**

Measurement: This work shall consist of furnishing and installing loam in a minimum 4 inches in depth and seed in the lawn areas shown on the plan. Loam shall be graded to drain.

Payment: Payment or credit shall be a lump sum price in the Bid Schedule and will constitute full compensation for all labor, materials and equipment required to complete the Work.

### **Uniformed Officers and Outsourced Flaggers**

Measurement: This work shall consist of furnishing uniformed officers, with or without vehicles, and qualified outsourced flaggers as required to direct traffic through or around the Work as ordered by the Engineer. The Contractor shall supply qualified uniformed officers or qualified outsourced flaggers as stated in Section 618 of the NHDOT Standard Specifications for Road and Bridge Construction, (latest edition). Daily coverage needs to be approved by the Engineer. Uniformed officers shall only be used when the Engineer has previously approved it.

Payment: Uniformed officers, uniformed officers with vehicles, and flaggers will be measured by the actual number of hours authorized, as determined by the Engineer. This item has a budgeted allowance as shown on the Bid Schedule.

For Uniformed officers and uniformed officers with vehicles, payments to Contractor will be made based on approved hours and resulting dollar amounts on Police Department invoices and only after contractor's proof of payment to Police Department.

Outsourced flaggers will be measured by the actual number of hours authorized, as determined by the Engineer. In no case shall the gross hourly rate exceed \$22/hour for straight time work and \$33/hour for overtime work. Payments to Contractor will be made based on approved hours and resulting dollar amounts. Payments to Contractor will be made only after Contractor's proof of payment to flagger company.

### **Maintenance of Traffic**

Measurement : This work shall consist of providing and maintaining safe and passable traffic accommodations for public traffic and furnishing, erecting and maintaining necessary traffic signs, barricades, lights, signals, delineators, concrete barriers, signs,



and other traffic control warning devices through the work zone. The contractor is responsible for preparing a work area that is free of parked vehicles or other obstructing objects.

The Contractor shall furnish all labor, materials, equipment and transportation necessary for the required maintenance of traffic needs based on the Contractors daily operations in accordance with Section 619 of the NHDOT Standard Specifications for Road and Bridge Construction, (latest edition) and Section 6H of the MUTCD (2009 Edition). At a minimum, the Contractor's crew shall, at all times, carry Two (2) of the following signs to be erected as the need may arise:

- Road Work Ahead (MUTCD W20-1)
- One Lane Road Ahead (MUTCD W20-4)
- Directional Arrow Sign (MUTCD W1-6)
- Flagger Sign (MUTCD W20-7)

Payment: Maintenance of traffic will be paid for periodically and at final payment based on percent of total contract value completed.

#### **ALTERNATE BID ITEM – Must Bid**

##### **Replace Brick Sewer Manhole with New 4 Foot Diameter Precast Concrete Manhole**

Measurement: The quantity to be paid for under this item of the Bid Schedule shall include the removal and disposal of the existing sewer brick manhole and replacing with a new 4 foot diameter precast concrete manhole. Included in this Work are three connections to existing sewer pipes with watertight seals at the manholes and connections to the existing pipes as well as construction of the necessary sewer invert for proper flow. The Work includes all excavation, gravels, backfilling, compaction and resetting of brick walkway and associated work to complete this manhole replacement.

Payment: Payment or credit shall be a lump sum price in the Bid Schedule and will constitute full compensation for all labor, materials and equipment required to complete the Work.